

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 10/538,066  
Source: PG/10  
Date Processed by STIC: 6/16/05

# ***ENTERED***



PCT

## RAW SEQUENCE LISTING

DATE: 06/16/2005

PATENT APPLICATION: US/10/538,066

TIME: 10:17:14

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\06162005\J538066.raw

3 <110> APPLICANT: Epimmune Inc.

5 <120> TITLE OF INVENTION: HLA-A1, -A2, -A3, -A24, -B7, and -B44 Tumor Associated Antigen

6 Peptides and Compositions

8 <130> FILE REFERENCE: 2060.015PC06

C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/538,066

C--> 11 <141> CURRENT FILING DATE: 2005-06-09

13 <150> PRIOR APPLICATION NUMBER: US 60/432,017

14 <151> PRIOR FILING DATE: 2002-12-10

16 <160> NUMBER OF SEQ ID NOS: 767

18 <170> SOFTWARE: PatentIn version 3.2

20 <210> SEQ ID NO: 1

21 <211> LENGTH: 10

22 <212> TYPE: PRT

23 <213> ORGANISM: Homo sapiens

25 <400> SEQUENCE: 1

27 Val Leu Tyr Gly Pro Asp Ala Pro Thr Val

28 1 5 10

31 <210> SEQ ID NO: 2

32 <211> LENGTH: 9

33 <212> TYPE: PRT

34 <213> ORGANISM: Homo sapiens

36 <400> SEQUENCE: 2

38 Tyr Leu Ser Gly Ala Asn Leu Asn Val

39 1 5

42 <210> SEQ ID NO: 3

43 <211> LENGTH: 9

44 <212> TYPE: PRT

45 <213> ORGANISM: Homo sapiens

47 <400> SEQUENCE: 3

49 Ala Thr Val Gly Ile Met Ile Gly Val

50 1 5

53 <210> SEQ ID NO: 4

54 <211> LENGTH: 11

55 <212> TYPE: PRT

56 <213> ORGANISM: Homo sapiens

58 <400> SEQUENCE: 4

60 Leu Leu Pro Glu Asn Asn Val Leu Ser Pro Val

61 1 5 10

64 <210> SEQ ID NO: 5

65 <211> LENGTH: 9

66 <212> TYPE: PRT

67 <213> ORGANISM: Homo sapiens

69 <400> SEQUENCE: 5

P.6

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Input Set : A:\Sequence Listing.txt

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71 Lys Leu Cys Pro Val Gln Leu Trp Val
72 1 5
75 <210> SEQ ID NO: 6
76 <211> LENGTH: 9
77 <212> TYPE: PRT
78 <213> ORGANISM: Homo sapiens
80 <220> FEATURE:
81 <221> NAME/KEY: misc_feature
82 <222> LOCATION: (3)..(3)
83 <223> OTHER INFORMATION: Xaa = alpha-amino butyric acid
85 <400> SEQUENCE: 6
W--> 87 Lys Leu Xaa Pro Val Gln Leu Trp Val
88 1 5
91 <210> SEQ ID NO: 7
92 <211> LENGTH: 9
93 <212> TYPE: PRT
94 <213> ORGANISM: Homo sapiens
96 <400> SEQUENCE: 7
98 Ser Leu Pro Pro Pro Gly Thr Arg Val
99 1 5
102 <210> SEQ ID NO: 8
103 <211> LENGTH: 9
104 <212> TYPE: PRT
105 <213> ORGANISM: Homo sapiens
107 <400> SEQUENCE: 8
109 Ser Met Pro Pro Pro Gly Thr Arg Val
110 1 5
113 <210> SEQ ID NO: 9
114 <211> LENGTH: 9
115 <212> TYPE: PRT
116 <213> ORGANISM: Homo sapiens
118 <400> SEQUENCE: 9
120 Lys Leu Phe Gly Ser Leu Ala Phe Val
121 1 5
124 <210> SEQ ID NO: 10
125 <211> LENGTH: 9
126 <212> TYPE: PRT
127 <213> ORGANISM: Homo sapiens
129 <400> SEQUENCE: 10
131 Lys Val Phe Gly Ser Leu Ala Phe Val
132 1 5
135 <210> SEQ ID NO: 11
136 <211> LENGTH: 10
137 <212> TYPE: PRT
138 <213> ORGANISM: Homo sapiens
140 <400> SEQUENCE: 11
142 Val Met Ala Gly Val Gly Ser Pro Tyr Val
143 1 5 10
146 <210> SEQ ID NO: 12

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## RAW SEQUENCE LISTING

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Input Set : A:\Sequence Listing.txt

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147 <211> LENGTH: 9  
148 <212> TYPE: PRT  
149 <213> ORGANISM: Homo sapiens  
151 <400> SEQUENCE: 12  
153 Ala Leu Cys Arg Trp Gly Leu Leu Leu  
154 1 5  
157 <210> SEQ ID NO: 13  
158 <211> LENGTH: 9  
159 <212> TYPE: PRT  
160 <213> ORGANISM: Homo sapiens  
162 <400> SEQUENCE: 13  
164 Phe Leu Trp Gly Pro Arg Ala Leu Val  
165 1 5  
168 <210> SEQ ID NO: 14  
169 <211> LENGTH: 9  
170 <212> TYPE: PRT  
171 <213> ORGANISM: Homo sapiens  
173 <400> SEQUENCE: 14  
175 His Leu Tyr Gln Gly Cys Gln Val Val  
176 1 5  
179 <210> SEQ ID NO: 15  
180 <211> LENGTH: 9  
181 <212> TYPE: PRT  
182 <213> ORGANISM: Homo sapiens  
184 <400> SEQUENCE: 15  
186 Ile Leu His Asn Gly Ala Tyr Ser Leu  
187 1 5  
190 <210> SEQ ID NO: 16  
191 <211> LENGTH: 9  
192 <212> TYPE: PRT  
193 <213> ORGANISM: Homo sapiens  
195 <400> SEQUENCE: 16  
197 Ile Met Ile Gly Val Leu Val Gly Val  
198 1 5  
201 <210> SEQ ID NO: 17  
202 <211> LENGTH: 9  
203 <212> TYPE: PRT  
204 <213> ORGANISM: Homo sapiens  
206 <400> SEQUENCE: 17  
208 Lys Ile Phe Gly Ser Leu Ala Phe Leu  
209 1 5  
212 <210> SEQ ID NO: 18  
213 <211> LENGTH: 9  
214 <212> TYPE: PRT  
215 <213> ORGANISM: Homo sapiens  
217 <400> SEQUENCE: 18  
219 Lys Val Ala Glu Leu Val His Phe Leu  
220 1 5  
223 <210> SEQ ID NO: 19

## RAW SEQUENCE LISTING

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Input Set : A:\Sequence Listing.txt

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224 <211> LENGTH: 9
225 <212> TYPE: PRT
226 <213> ORGANISM: Homo sapiens
228 <400> SEQUENCE: 19
230 Leu Leu Thr Phe Trp Asn Pro Pro Val
231 1 5
234 <210> SEQ ID NO: 20
235 <211> LENGTH: 10
236 <212> TYPE: PRT
237 <213> ORGANISM: Homo sapiens
239 <400> SEQUENCE: 20
241 Leu Val Phe Gly Ile Glu Leu Met Glu Val
242 1 5 10
245 <210> SEQ ID NO: 21
246 <211> LENGTH: 11
247 <212> TYPE: PRT
248 <213> ORGANISM: Homo sapiens
250 <400> SEQUENCE: 21
252 Gln Leu Val Phe Gly Ile Glu Leu Met Glu Val
253 1 5 10
256 <210> SEQ ID NO: 22
257 <211> LENGTH: 9
258 <212> TYPE: PRT
259 <213> ORGANISM: Homo sapiens
261 <400> SEQUENCE: 22
263 Arg Leu Leu Gln Glu Thr Glu Leu Val
264 1 5
267 <210> SEQ ID NO: 23
268 <211> LENGTH: 9
269 <212> TYPE: PRT
270 <213> ORGANISM: Homo sapiens
272 <400> SEQUENCE: 23
274 Val Val Leu Gly Val Val Phe Gly Ile
275 1 5
278 <210> SEQ ID NO: 24
279 <211> LENGTH: 10
280 <212> TYPE: PRT
281 <213> ORGANISM: Homo sapiens
283 <400> SEQUENCE: 24
285 Tyr Leu Gln Leu Val Phe Gly Ile Glu Val
286 1 5 10
289 <210> SEQ ID NO: 25
290 <211> LENGTH: 10
291 <212> TYPE: PRT
292 <213> ORGANISM: Homo sapiens
294 <400> SEQUENCE: 25
296 Tyr Met Ile Met Val Lys Cys Trp Met Ile
297 1 5 10
300 <210> SEQ ID NO: 26

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## RAW SEQUENCE LISTING

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Input Set : A:\Sequence Listing.txt

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301 <211> LENGTH: 14
302 <212> TYPE: PRT
303 <213> ORGANISM: Clostridium tetani
305 <400> SEQUENCE: 26
307 Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
308 1          5          10
311 <210> SEQ ID NO: 27
312 <211> LENGTH: 21
313 <212> TYPE: PRT
314 <213> ORGANISM: Plasmodium falciparum
316 <400> SEQUENCE: 27
318 Asp Ile Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe
319 1          5          10          15
322 Asn Val Val Asn Ser
323          20
326 <210> SEQ ID NO: 28
327 <211> LENGTH: 16
328 <212> TYPE: PRT
329 <213> ORGANISM: Streptococcus sp.
331 <400> SEQUENCE: 28
333 Gly Ala Val Asp Ser Ile Leu Gly Gly Val Ala Thr Tyr Gly Ala Ala
334 1          5          10          15
337 <210> SEQ ID NO: 29
338 <211> LENGTH: 13
339 <212> TYPE: PRT
340 <213> ORGANISM: Unknown
342 <220> FEATURE:
343 <223> OTHER INFORMATION: PADRE peptide
346 <220> FEATURE:
347 <221> NAME/KEY: misc_feature
348 <222> LOCATION: (1)..(1)
349 <223> OTHER INFORMATION: May be L- or D-Alanine
351 <220> FEATURE:
352 <221> NAME/KEY: misc_feature
353 <222> LOCATION: (3)..(3)
354 <223> OTHER INFORMATION: Xaa may be Cyclohexylalanine, Phe or Tyr
356 <220> FEATURE:
357 <221> NAME/KEY: misc_feature
358 <222> LOCATION: (7)..(7)
359 <223> OTHER INFORMATION: Xaa may be Trp, Tyr, His or Asn
361 <220> FEATURE:
362 <221> NAME/KEY: misc_feature
363 <222> LOCATION: (13)..(13)
364 <223> OTHER INFORMATION: May be L- or D-Alanine
366 <220> FEATURE:
367 <221> NAME/KEY: misc_feature
368 <222> LOCATION: (13)..(13)
369 <223> OTHER INFORMATION: May be amidated
371 <400> SEQUENCE: 29

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/538,066

DATE: 06/16/2005  
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Input Set : A:\Sequence Listing.txt  
Output Set: N:\CRF4\06162005\J538066.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; Xaa Pos. 3  
Seq#:29; Xaa Pos. 3,7  
Seq#:30; Xaa Pos. 3  
Seq#:34; Xaa Pos. 3  
Seq#:37; Xaa Pos. 3  
Seq#:40; Xaa Pos. 3  
Seq#:108; Xaa Pos. 1  
Seq#:109; Xaa Pos. 1  
Seq#:116; Xaa Pos. 5  
Seq#:118; Xaa Pos. 3  
Seq#:119; Xaa Pos. 3  
Seq#:120; Xaa Pos. 3  
Seq#:122; Xaa Pos. 3  
Seq#:123; Xaa Pos. 3  
Seq#:766; Xaa Pos. 1,5,6,8,9  
Seq#:767; Xaa Pos. 1,3,5,6,7

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/538,066

DATE: 06/16/2005

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Input Set : A:\Sequence Listing.txt

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L:10 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:87 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0  
L:393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0  
L:455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0  
L:503 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0  
L:551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0  
L:1307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:108 after pos.:0  
L:1323 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:0  
L:1405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:0  
L:1432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118 after pos.:0  
L:1448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:119 after pos.:0  
L:1464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120 after pos.:0  
L:1491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122 after pos.:0  
L:1507 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123 after pos.:0  
L:4133 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (362) SEQUENCE:  
L:8209 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (666) SEQUENCE:  
L:8326 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (677) SEQUENCE:  
L:9900 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:766 after pos.:0  
L:9935 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:767 after pos.:0